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Product: Daily Forecast of Geomagnetic Activity  
Issued: 2025 February 01 11:14UTC  
Prepared by the Athens Space Weather Forecasting Center  
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**I. Solar activity**  
*--Current Status*  
Solar Flux (10.7cm) measured on 31.01.2025 at 23:00 UTC was 207 sfu.  
The background X-Ray flux is at the class C1.4 level.  
No obviously Earth directed CMEs were observed in available LASCO imagery on January 27-29.  
Two M-class solar flares were produced on January 31 and the largest was the M6.8.  
AR3978 erupted on January 31 at 14:06 UT peak time producing a M6.8-Class solar flare and a radio blackout of category R2.  
An equatorial coronal hole (CH1268) will be Earth facing position on January 28-February 01.  
  
**II. Solar Energetic Particle Events**  
Protons and electrons fluxes are quiet.  
  
**III. Interplanetary and Geomagnetic conditions**  
The solar wind speed measured by ACE satellite reached the max value 566 Km/s on February 01 at 10:50 UT during the last 24 hours.  
The solar wind speed from STEREO A was detected 400 Km/s during the last 24 hours.  
The vertical component of IMF Bz reached the max value -16 nT on February 01 at 00:30 UT during the last 24 hours.  
The geomagnetic field was at quiet to active levels during the last 24 hours.  
The Kp index now is at active levels with Kp=4.  
  
**IV. 3-day Geomagnetic Activity Forecast**  
The geomagnetic field is expected to be at quiet to active levels with a chance of minor storm (G1) levels on February 01-02 due to the effect of the recurrent coronal hole high speed stream and at quiet levels on February 03.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 01.02.2025 | 20 | Quiet to Active |
| 02.02.2025 | 12 | Quiet to Active |
| 03.02.2025 | 05 | Quiet |

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